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PATENT ABSTRACTS OF JAPAN(21) Application number: **08021384**(51) Intl. Cl.: **F16F 7/00 A63C 11/22**(22) Application date: **07.02.96**

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**(54) IMPACT AND
DISPLACEMENT
ABSORBING AND BUFFER
MECHANISM OF STICK
LEG OR THE LIKE**

(57) Abstract:

PURPOSE: To provide an impact and displacement absorbing and buffer mechanism capable of obtaining the elasticity of several kinds of elastic coefficient with a simple constitution, and being used for a comfortable stick, a sporty stick, crutches, an artificial leg, a caster walker for patients, a baby carriage, a wheel chair for health care, a bicycle, a seat for a motor cycle, a bed for health care, etc.

CONSTITUTION: A compressive coil spring 7 is inserted between an outer cylinder 1 and an inner cylinder 2 which are slidable on each other, and a plurality of elastic lumps 8, 8... such as rubber and plastic are inserted and held in the compressive coil spring 7. A bulkhead plate 10 is

freely inserted between upper ends 1a, 2a of the outer cylinder 1 and the inner cylinder 2, the compressive coil spring 7 and one or a plurality of elastic lumps 8, 8... are inserted and held between the bulkhead plate 10 and the upper end 2a of the inner cylinder 2, and the respective elastic lumps are different in hardness.

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